

ABSTRACT OF THE DISCLOSURE

A multi-stage DC/AC coupled impact force enhancing device of an electric nailer includes an AC power source, a half-wave rectifying circuit, a doubler rectifying filter circuit, a DC steady-state circuit, an AC phase
5 sampling circuit, a phase start circuit, a switch start circuit, an impulse oscillation circuit, a decoding counting circuit, an energy-storage circuit, a solid-state switch circuit, and an electromagnetic coil. Thus, the multi-stage DC/AC coupled impact force enhancing device can couple the alternating/direct current voltage to serially discharge the voltage to the
10 electromagnetic coil of the electric nailer in a short period of time, thereby generating a larger impact force.